Year II, Semester I	
Engineering Drawing	3
Introduction to Computer Programing	3
Engineering Mechanics I (Statics)	3
Applied Mathematics IIB	4
Economics	3
Global Trend	2
Year II, Semester II	
Engineering Mechanics II (Dynamics)	3
Applied Mathematics IIIB	4
Probability & Statistics	3
Fundamental of Electrical Circuits	4
History of Ethiopia and the Horn	3
Mechanical Workshop Practice	2
Year III, Semester I	
Engineering Thermodynamics	3
Strength of Materials	4
Computational Methods	3
Design of Machine Elements I	3
Electrical Machine	3
Workshop for Mechatronics	2
Year III, Semester II	
Signals & Systems	3
Mechanism of Machinery	3
Object Oriented Programming in Python	3
Design of Machine Elements II	3
Applied Electronics I	3
Machine Drawing with CAD	3

Year 2	**Semester I**	Course Code	Course Name	Credit Hour	Prerequiste
		Econ2009	Economics	3	
		Comp2003	Introduction to Computer Programming	3	
		Math2007	Applied Mathematics IIB	4	Math1014--Applied Mathematics IB--4
		GLTr2011	Global Trend	2	
		MEng2101	Engineering Drawing	3	
		CEng2103	Engineering Mechanics I (Statics)	3	
	Semester II	Course Code	Course Name	Credit Hour	Prerequiste
		EMEg2106	Mechanical Workshop Practice	2	
		Math2042	Applied Mathematics IIIB	4	Math2007--Applied Mathematics IIB--4
		MEng2102	Engineering Mechanics II (Dynamics)	3	CEng2103--Engineering Mechanics I (Statics)--3
		Stat2091	Probability and Statistics	3	
		Hist2002	History of Ethiopia and the Horn	3	
		EMEg3107	Fundamental of Electrical Circuits	4	Math1014--Applied Mathematics IB--4

Year 3	**Semester I**	Course Code	Course Name	Credit Hour	Prerequiste
		EMEg2102	Strength of Materials	4	Math1014--Applied Mathematics IB--4 and CEng2103--Engineering Mechanics I (Statics)--3
		EMEg3101	Engineering Thermodynamics	3	Math1014--Applied Mathematics IB--4
		EMEg3103	Computational Methods	3	Comp2003--Introduction to Computer Programming--3 and Math2042--Applied Mathematics IIIB--4
		MEng3151	Design of Machine Elements I	3	CEng2103--Engineering Mechanics I (Statics)--3
		EMEg3104	Electrical Machine	3	EMEg3107--Fundamental of Electrical Circuits--4
		EMEg3105	Workshop for Mechatronics	2	Comp2003--Introduction to Computer Programming--3
	Semester II	Course Code	Course Name	Credit Hour	Prerequiste
		MEng3110	Mechanism of Machinery	3	MEng2102--Engineering Mechanics II (Dynamics)--3
		MEng3112	Design of Machine Elements II	3	MEng3151--Design of Machine Elements I--3
		EMEg3102	Signals & Systems	3	Math2042--Applied Mathematics IIIB--4
		EMEg2104	Object Oriented Programming in Python	3	Comp2003--Introduction to Computer Programming--3
		EMEg3106	Applied Electronics I	3	EMEg3107--Fundamental of Electrical Circuits--4
		EMEg3108	Machine Drawing with CAD	3	MEng2101--Engineering Drawing--3

Year 4	**Semester I**	Course Code	Course Name	Credit Hour	Prerequiste
		EMEg4101	Applied Electronics II	3	EMEg3106--Applied Electronics I--3
		EMEg4103	Fluid Mechanics	3	Math2042--Applied Mathematics IIIB--4
		EMEg4105	Control Systems	3	Math2042--Applied Mathematics IIIB--4
		EMEg4107	Digital Signal Processing	3	EMEg3102--Signals & Systems--3
		EMEg4108	Smart Materials & Applications	3	
		ETP4115	Integrated Engineering team project	3	
	Semester II	Course Code	Course Name	Credit Hour	Prerequiste
		MEng4109	Mechanical Vibrations	3	Math2042--Applied Mathematics IIIB--4 and MEng3110--Mechanism of Machinery--3
		EMEg4102	Modern Control System	3	EMEg4105--Control Systems--3
		EMEg4104	Industrial Automation & Process Control	3	EMEg4105--Control Systems--3
		EMEg4113	Instrumentation & Measurement	3	
		EMEg4110	Power Electronics & Drive	4	EMEg3104--Electrical Machine--3 and EMEg4101--Applied Electronics II--3
		EMEg4112	Digital Logic Design	3	EMEg4101--Applied Electronics II--3
	Summer	EMEg4111	Industrial Internship	6	

	er I	Course Code	Course Name	Credit Hour	Prerequiste
		EMEg5101	Design of Mechatronic System	4	MEng3110--Mechanism of Machinery--3 and EMEg4105--Control Systems--3
		EMEg5103	Virtual Instrumentation	3	MEg4113--Instrumentation & Measurement--3

Year 5					
	Semest	EMEg5105	Embedded systems	3	EMEg4101--Applied Electronics II--3 and EMEg4113--Instrumentation & Measurement--3
		EMEg5107	Introduction to Robotics	3	EMEg4105--Control Systems--3
		EMEg5109	Hydraulics & Pneumatics	3	EMEg4103--Fluid Mechanics--3
		EMEg4106	Manufacturing Processes & Automation	3	EMEg2106--Mechanical Workshop Practice--2
		EMEg5113	B.Sc. Thesis Phase I	0	
	Semester II	Course Code	Course Name	Credit Hour	Prerequiste
		NEE5108	National Exit Examination	0	
		EMEg5102	Industrial Management & Engineering Economy	3	
		EMEg5104	Introduction to Machine learning	3	Stat2091--Probability and Statistics--3 and EMEg2104--Object Oriented Programming in Python--3
		EMEg5106	Introduction to Computer Vision	3	EMEg4107--Digital Signal Processing--3
		EMEg5114	B.Sc. Thesis phase II	6	EMEg5113--B.Sc. Thesis Phase I--0

Prerequisite for National Exit Examination - 48 Courses

Phil1009--Logic and Critical Thinking--3
Psyc1011--General Psychology--3
GeEs1005--Geography of Ethiopia and the Horn--3
SpSc1013--Physical Fitness--0
Phys1001--General Physics--3
FLEn1004--Communicative English Language Skills II--3
MCiE1012--Moral and Civic Education--2
Incl1010--Inclusiveness--2
Anth1002--Social Anthropology--2
Entr1106--Entrepreneurship for Engineers--3
EmTe1108--Emerging Technology for Engineers--3
Comp2003--Introduction to Computer Programming--3
GLTr2011--Global Trend--2
Econ2009--Economics--3
EMEg3107--Fundamental of Electrical Circuits--4
Stat2091--Probability and Statistics--3
Hist2002--History of Ethiopia and the Horn--3
EMEg2102--Strength of Materials--4
EMEg2106--Mechanical Workshop Practice--2
Math2042--Applied Mathematics IIIB--4
MEng2102--Engineering Mechanics II (Dynamics)--3
EMEg3101--Engineering Thermodynamics--3
EMEg3104--Electrical Machine--3
EMEg3105--Workshop for Mechatronics--2
EMEg3102--Signals & Systems--3
MEng3110--Mechanism of Machinery--3
EMEg2104--Object Oriented Programming in Python--3
MEng3112--Design of Machine Elements II--3
EMEg3108--Machine Drawing with CAD--3
MEng4109--Mechanical Vibrations--3 Delete EMEg4101--Applied Electronics II--3
EMEg4103--Fluid Mechanics--3
EMEg4107--Digital Signal Processing--3
EMEg4108--Smart Materials & Applications--3
EMEg4102--Modern Control System--3
EMEg4104--Industrial Automation & Process Control--3
EMEg4110--Power Electronics & Drive--4
EMEg4112--Digital Logic Design--3
EMEg4111--Industrial Internship--6
EMEg5101--Design of Mechatronic System--4 Delete EMEg5103--Virtual Instrumentation--3
EMEg5105--Embedded systems--3
EMEg5107--Introduction to Robotics--3
EMEg5109--Hydraulics & Pneumatics--3
EMEg4106--Manufacturing Processes & Automation--3
EMEg5113--B.Sc. Thesis Phase I--0
IETP4115--Integrated Engineering team project--3
EMEg4113--Instrumentation & Measurement--3